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GAS UTILITIES  
 (Transport and Distribution Systems)

JANUARY 1965

During January 1965 field gathering systems and processing plants delivered to gas utilities 100,816,671 Mcf. of natural gas. The transport systems accounted for 75,916,355 Mcf. and the distribution systems 24,900,316 Mcf. Natural gas recovered from storage was 9,325,261 Mcf. The total supply of gas utilities amounted to 110,385,670 Mcf., 14.3 per cent higher than in January 1964. Of the total supply, 66,603,583 Mcf. were sold to ultimate customers in Canada, an increase of 14.3 per cent. Exports rose slightly to 36,599,820 Mcf. from 36,341,974 Mcf. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. The distribution systems received from the transport systems 44,305,816 Mcf. of natural gas, an increase of 25.9 per cent. For the twelve-month period ended January 1965, exports totalled 392,497,275 Mcf., while net deliveries amounted to 910,515,662 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 66.2 billion commodity (Mcf.) miles (1,510 million ton-miles) during January 1965 compared with 58.5 billion (1,334 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 3.4 million Mcf.

Alberta natural gas utility receipts totalled 83.5 billion cubic feet; of this, 25.7 per cent was sold to ultimate customers in Alberta, 17.5 per cent in Ontario, 5.2 per cent in Manitoba, 3.8 per cent in Quebec, 3.6 per cent in Saskatchewan and 1.6 per cent in British Columbia. Exports accounted for 35.1 per cent while the remaining 7.5 per cent was other deliveries, deliveries to storage, line pack changes, gas used in systems and line losses and unaccounted for. In Table 3 gas received from and delivered to storage is considered as having originated or terminated in the province where the storage is located.

All gas volumes are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60°F; that is, without adjustments to a common B.T.U. base. Gas sales and exports containing 1,000 B.T.U.'s at 14.73 p.s.i.a. at 60°F are given separately in Tables 4 and 5 in the companion publication "Sales of Manufactured and Natural Gas", Catalogue number 45-005.

Residential sales and a substantial portion of the smaller commercial sales are for the most part "displacement meter" sales and adjustments to a common base are only close approximations; industrial and larger commercial sales are for the most part "orifice meter" sales which are easily adjusted to the common base. All sales are reported on a billing month basis, consequently "Line losses and unaccounted for" include cyclical billing adjustments.

A companion publication "Crude Petroleum and Natural Gas Production", Catalogue 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division

May 1965  
 6511-509

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

January 1965

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	11,446	-	1,470,195
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	11,446	-	1,470,195
4	Imports .....	-	-	120,239
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	11,446	-	1,590,434
7	Received from storage .....	-	-	8,274,140
9	Total supply of gas utilities (6 + 7) .....	11,446	-	9,864,574
	Transfers from:			
11	Other provinces .....	-	3,271,342	21,929,906
12	Distribution to transport (primary) .....	-	-	499,216
13	Other gas utilities .....	-	3,271,342	33,996,056
19	Total gross receipts (9 + 11 + 12 + 13) ...	11,446	6,542,684	66,289,752
	<u>Disposition</u>			
	Sales:			
20	Residential .....	6,379	1,646,399	11,796,504
21	Industrial .....	-	1,137,115	7,583,320
22	Commercial .....	-	394,082	4,740,204
30	Total sales (20 + 21 + 22) .....	6,379	3,177,596	24,120,028
31	Exports .....	-	-	327,866
32	Other deliveries .....	-	-	1,430
33	Total net deliveries (30 + 31 + 32) .....	6,379	3,177,596	24,449,324
34	Delivered to storage .....	-	-	9,186
35	Line pack fluctuation .....	-	12,232	- 95,381
36	Gas used in system .....	-	10,480	1,491,178
37	Line losses and unaccounted for .....	5,067	71,034	2,668,831
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	11,446	3,271,342	28,523,138
	Transfers to:			
40	Other provinces .....	-	-	3,271,342
41	Distribution by transport (primary) .....	-	3,271,342	25,652,979
42	Other gas utilities .....	-	-	8,842,293
49	Total disposition (39 + 40 + 41 + 42) .....	11,446	6,542,684	66,289,752

(1) Includes peak shaving and enrichment.  
 ... Figures not appropriate or not applicable.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

January 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	January 1964	No.
					Canada	
Mcf.						
-	76,075	9,014,422	487,447	9,577,944	8,082,197	1a
-	-	53,867,266	12,471,145	66,338,411	59,356,924	1b
-	1,176,860	8,913,306	27,864	11,599,671	8,618,465	2a
-	1,993,421	11,221,191	86,033	13,300,645	14,340,369	2b
-	3,246,356	83,016,185	13,072,489	100,816,671	90,397,955	3
-	-	15,044	-	135,283	12,577 <sup>r</sup>	4
108,455	-	-	-	108,455	65,536	5
108,455	3,246,356	83,031,229	13,072,489	101,060,409	90,476,068	6
-	716,384	334,737	-	9,325,261	6,075,333	7
108,455	3,962,740	83,365,966	13,072,489	110,385,670	96,551,401	9
33,559,276	37,779,045	-	21,170,221	...	...	11
-	826,910	-	-	1,326,126	1,115,736	12
4,531,333	3,384,439	4,554,162	6,483,463	56,220,795	45,981,851	13
38,199,064	45,953,134	87,920,128	40,726,173	167,932,591	143,648,988	19
2,393,546	3,290,021	7,771,442	2,659,870	29,564,161	26,037,617	20
610,224	1,884,583	8,526,754	2,754,819	22,496,815	20,146,835	21
1,547,684	1,719,751	5,189,414	951,472	14,542,607	12,098,782	22
4,551,454	6,894,355	21,487,610	6,366,161	66,603,583	58,283,234	30
6,383,976	-	2,727,739	27,160,239	36,599,820	36,341,974	31
-	-	245,102	-	246,532	241,750	32
10,935,430	6,894,355	24,460,451	33,526,400	103,449,935	94,866,958	33
-	115,931	368,829	-	493,946	599,075	34
- 24,525	- 43,542	- 12,718	207,301	43,367	- 35,828	35
690,468	1,452,951	101,601	474,914	4,221,592	2,671,670	36
136,452	- 237,186	- 501,463	34,095	2,176,830	- 1,550,474	37
11,737,825	8,182,509	24,416,700	34,242,710	110,385,670	96,551,401	39
21,929,906	33,559,276	58,949,266	-	...	...	40
4,531,333	3,384,439	1,160,535	6,305,188	44,305,816	35,182,609	41
-	826,910	3,393,627	178,275	13,241,105	11,914,978	42
38,199,064	45,953,134	87,920,128	40,726,173	167,932,591	143,648,988	49

<sup>r</sup> Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields .....	9,577,944				
1b	Processing plants .....	66,338,411				
2	By distribution systems:					
2a	Fields .....	11,599,671				
2b	Processing plants .....	13,300,645				
3	Total (1 + 2) .....	100,816,671				
4	Imports .....	135,283				
5	Other receipts(1) .....	108,455				
6	Total net receipts (3 + 4 + 5) .....	101,060,409				
7	Received from storage .....	9,325,261				
9	Total supply of gas utilities (6 + 7) .....	110,385,670				
	Transfers from:					
11	Other provinces .....	...				
12	Distribution to transport (primary) .....	1,326,126				
13	Other gas utilities .....	56,220,795				
19	Total gross receipts (9 + 11 + 12 + 13) ...	167,932,591				
	<u>Disposition</u>					
	Sales:					
20	Residential .....	29,564,161				
21	Industrial .....	22,496,815				
22	Commercial .....	14,542,607				
30	Total sales (20 + 21 + 22) .....	66,603,583				
31	Exports .....	36,599,820				
32	Other deliveries .....	246,532				
33	Total net deliveries (30 + 31 + 32) .....	103,449,935				
34	Delivered to storage .....	493,946				
35	Line pack fluctuation .....	43,367				
36	Gas used in system .....	4,221,592				
37	Line losses and unaccounted for .....	2,176,830				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	110,385,670				
	Transfers to:					
40	Other provinces .....	...				
41	Distribution by transport (primary) .....	44,305,816				
42	Other gas utilities .....	13,241,105				
49	Total disposition (39 + 40 + 41 + 42) .....	167,932,591				

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

June	July	August	September	October	November	December	Year to date(1)		No.
							1965	1964	
				Mcf.					1a 1b
									2a 2b
									3
									4
									5
									6
									7
									9
									11
									12
									13
									19
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									32
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									36
									37
									39
									40
									41
									42
									49

(1) See columns 5 and 6 on page 3 of this report.  
 ... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

January 1965

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields .....	-	-	76,075	9,014,422	487,447	...	9,577,944	
1b	Processing plants .....	-	-	-	53,867,266	12,471,145	...	66,338,411	
2	By distribution systems:								
2a	Fields .....	11,446	1,470,195	1,176,860	8,913,306	27,864	...	11,599,671	
2b	Processing plants .....	-	-	1,993,421	11,221,191	86,033	...	13,300,645	
3	Total (1 + 2) .....	11,446	1,470,195	3,246,356	83,016,185	13,072,489	...	100,816,671	
4	Imports .....	...	...	...	...	...	135,283	135,283	
5	Other receipts(1) .....	-	-	-	108,455	-	...	108,455	
6	Total net receipts (3 + 4 + 5) .....	11,446	1,470,195	3,246,356	83,124,640	13,072,489	135,283	101,060,409	
7	Received from storage .....	-	8,274,140	716,384	334,737	-	...	9,325,261	
9	Total supply of gas utilities (6 + 7) .....	11,446	9,744,335	3,962,740	83,459,377	13,072,489	135,283	110,385,670	
	<u>Disposition</u>								
	Sales:								
23	British Columbia .....	-	-	-	1,306,594	5,059,567	-	6,366,161	
24	Alberta .....	-	-	-	21,472,566	-	15,044	21,487,610	
25	Saskatchewan .....	-	-	3,884,190	3,010,165	-	-	6,894,355	
26	Manitoba .....	-	-	200,403	4,351,051	-	-	4,551,454	
27	Ontario .....	-	9,357,947	-	14,641,842	-	120,239	24,120,028	
28	Quebec .....	-	-	-	3,177,596	-	-	3,177,596	
29	New Brunswick .....	6,379	-	-	-	-	-	6,379	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,379	9,357,947	4,084,593	47,959,814	5,059,567	135,283	66,603,583	
31	Exports .....	-	-	-	29,256,627	7,343,193	-	36,599,820	
32	Other deliveries .....	-	-	-	246,532	-	-	246,532	
33	Total net deliveries (30 + 31 + 32) .....	6,379	9,357,947	4,084,593	77,462,973	12,402,760	135,283	103,449,935	
34	Delivered to storage .....	-	-	115,931	378,015	-	-	493,946	
35	Line pack fluctuation .....	-	-	- 10,842	- 167,661	221,870	-	43,367	
36	Gas used in system .....	-	47,887	79,173	3,707,738	386,794	-	4,221,592	
37	Line losses and unaccounted for .....	5,067	338,501	- 306,115	2,078,312	61,065	-	2,176,830	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	11,446	9,744,335	3,962,740	83,459,377	13,072,489	135,283	110,385,670	

(1) Includes peak shaving and enrichment.  
... Figures not appropriate or not applicable.



TABLE 4. Operating Statistics: Natural Gas Utilities

January 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
January 1965:			
Daily average .....	2,609,859	2,148,503	3,353,028
Maximum(1) .....	3,086,555	...	...
Minimum(1) .....	2,094,639	...	...
Exports maximum(1) .....	1,242,820	...	1,242,820
January 1964:			
Daily average .....	2,307,245	1,880,104	3,079,549
Maximum(1) .....	2,732,436	...	...
Minimum(1) .....	2,087,418	...	...
Year to date 1965:			
Daily average .....	2,609,859	2,148,503	3,353,028
Maximum(1) .....	3,086,555	...	...
Minimum(1) .....	2,094,639	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	66,228,976	..	..
Ton-miles (millions) .....	1,510	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	7,296,414	..	..
End of month (Mcf.) .....	7,335,697	..	..
Operating revenues .....	..	(\$)46,313,911	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	62,502	242,336
Deliveries to ultimate customers .....	66,646	221,788
Line pack fluctuations .....	-	- 457
Gas used in system .....	457	2,129
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 4,601	18,876
Total disposition .....	62,502	242,336
Daily average sendout .....	2,150	7,154
Revenues .....	(\$)49,919	(\$)211,987



TABLE 6. Exports and Imports to and from the United States  
January 1965

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	327,866	-
Niagara Falls .....	-	120,239
Ojibway, Ontario .....	-	-
Emerson, Manitoba .....	6,383,976	-
Coutts, Alberta .....	311	15,044
Aden, Alberta .....	1,735,854	-
Carway, Alberta .....	991,574	-
Kingsgate, British Columbia - U.S.A. District V South(1)	13,608,592	-
Other U.S.A. ....	4,523,212	-
Huntingdon, British Columbia .....	9,028,435	-
Canada - 1965 .....	36,599,820	135,283
1964 .....	36,341,974	12,577

(1) California, Nevada, Arizona.